

	ENTRY	SESSION
FULL ESTIMATED COST	172.55	793.24
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.73

FILE 'STNGUIDE' ENTERED AT 13:52:31 ON 25 OCT 2007
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Oct 19, 2007 (20071019/UP).

=>
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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/Caplus enhanced with utility model patents from China
NEWS 6	JUL 16	Caplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/Caplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 12	AUG 13	CA/Caplus enhanced with additional kind codes for granted patents
NEWS 13	AUG 20	CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS 14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 15	AUG 27	USPATOLD now available on STN
NEWS 16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 18	SEP 13	FORIS renamed to SOFIS
NEWS 19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 20	SEP 17	CA/Caplus enhanced with printed CA page images from 1967-1998
NEWS 21	SEP 17	Caplus coverage extended to include traditional medicine patents

NEWS 22 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23 OCT 02 CA/CAPLUS enhanced with pre-1907 records from Chemisches
Zentralblatt
NEWS 24 OCT 19 BEILSTEIN updated with new compounds

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:18:25 ON 25 OCT 2007

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:18:38 ON 25 OCT 2007

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STRUCTURE FILE UPDATES: 23 OCT 2007 HIGHEST RN 951288-30-5

DICTIONARY FILE UPDATES: 23 OCT 2007 HIGHEST RN 951288-30-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

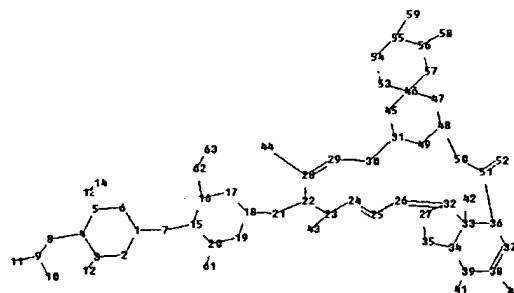
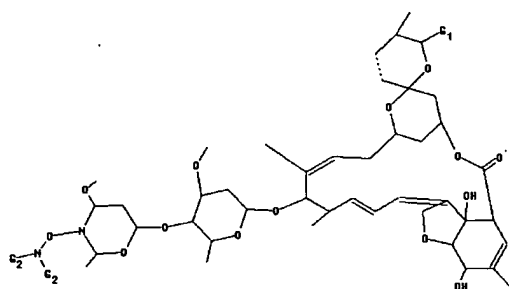
Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\rshipe\My Documents\10544274.str



chain nodes :

7 8 9 10 11 12 13 14 21 40 41 42 43 44 52 58 59 61 62 63

ring nodes :

1 2 3 4 5 6 15 16 17 18 19 20 22 23 24 25 26 27 28 29 30 31

32 33 34 35 36 37 38 39 45 46 47 48 49 50 51 53 54 55 56 57

chain bonds :

1-7 3-12 4-8 5-13 7-15 8-9 9-10 9-11 13-14 16-62 18-21 20-61 21-22 23-43

28-44 33-42 38-40 39-41 51-52 55-59 56-58 62-63

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-20 16-17 17-18 18-19 19-20 22-23 22-28

23-24 24-25 25-26 26-32 27-35 27-32 28-29 29-30 30-31 31-45 31-49 32-33

33-34 33-36

34-35 34-39 36-37 36-51 37-38 38-39 45-46 46-47 46-53 46-57 47-48 48-49

48-50 50-51

53-54 54-55 55-56 56-57

exact/norm bonds :

1-2 1-6 1-7 2-3 3-4 4-5 4-8 5-6 5-13 7-15 8-9 9-10 9-11 13-14 16-62

18-21 21-22 33-42 39-41 51-52 53-54 56-58 62-63

exact bonds :

3-12 15-16 15-20 16-17 17-18 18-19 19-20 20-61 22-23 22-28 23-24 23-43

24-25 25-26 26-32 27-35 27-32 28-29 28-44 29-30 30-31 31-45 31-49 32-33

33-34 33-36

34-35 34-39 36-37 36-51 37-38 38-39 38-40 45-46 46-47 46-53 46-57 47-48

48-49 48-50

50-51 54-55 55-56 55-59 56-57

isolated ring systems :

containing 1 : 15 : 22 :

G1: Ak, Cb

G2: H, Ak, Cb

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:CLASS

22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom

31:Atom

32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:CLASS

41:CLASS 42:CLASS

43:CLASS 44:CLASS 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom

52:CLASS 53:Atom
54:Atom 55:Atom 56:Atom 57:Atom 58:CLASS 59:CLASS 61:CLASS 62:CLASS
63:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> S L1 SSS SAM

SAMPLE SEARCH INITIATED 14:19:26 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 14:19:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=> FILE MARPAT

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

172.76

FILE 'MARPAT' ENTERED AT 14:19:46 ON 25 OCT 2007

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FILE CONTENT: 1961-PRESENT VOL 147 ISS 16 (20071019/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 2007208087 06 SEP 2007

DE 102006031470 06 SEP 2007

EP 1829884 05 SEP 2007
JP 2007227583 06 SEP 2007
WO 2007101371 13 SEP 2007
GB 2435471 29 AUG 2007
FR 2898125 07 SEP 2007
RU 2304584 20 AUG 2007
CA 2537669 24 AUG 2007

Expanded G-group definition display now available.

=> S L1 SSS SAM

SAMPLE SEARCH INITIATED 14:20:32 FILE 'MARPAT'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L1

=> S L1 FULL

FULL SEARCH INITIATED 14:20:41 FILE 'MARPAT'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L5 0 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	121.45	294.21

FILE 'CAPLUS' ENTERED AT 14:20:56 ON 25 OCT 2007

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FILE COVERS 1907 - 25 Oct 2007 VOL 147 ISS 18

FILE LAST UPDATED: 24 Oct 2007 (20071024/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> E WO 2004-069852/PN

E1 1 WO2004069850/PN
E2 1 WO2004069851/PN
E3 1 --> WO2004069852/PN
E4 1 WO2004069853/PN
E5 1 WO2004069854/PN
E6 1 WO2004069855/PN
E7 1 WO2004069856/PN
E8 1 WO2004069857/PN
E9 1 WO2004069858/PN
E10 2 WO2004069859/PN
E11 1 WO2004069860/PN
E12 1 WO2004069861/PN

=> S E3

L6 1 WO2004069852/PN
(WO2004069852/PN)

=> D L6

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:681635 CAPLUS Full-text
DN 141:186451
TI Preparation of avermectins substituted in the 4'- and 4"-positions as
insecticides and acaricides
IN Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter;
Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
PA Syngenta Participations A.-G., Switz.
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004069852	A1	20040819	WO 2004-EP972	20040203 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1613639	A1	20060111	EP 2004-707515	20040203
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2006516590	T	20060706	JP 2006-501717	20040203
	US 2006154879	A1	20060713	US 2005-544274	20050803
PRAI	GB 2003-2548	A	20030204		
	WO 2004-EP972	W	20040203		
OS	MARPAT 141:186451				

=> D ALL

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:681635 CAPLUS Full-text

DN 141:186451
 ED Entered STN: 20 Aug 2004
 TI Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides
 IN Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
 PA Syngenta Participations A.-G., Switz.
 SO PCT Int. Appl., 76 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07H017-08
 ICS A61K031-70; A61P033-00
 CC 5-4 (Agrochemical Bioregulators)
 Section cross-reference(s): 26

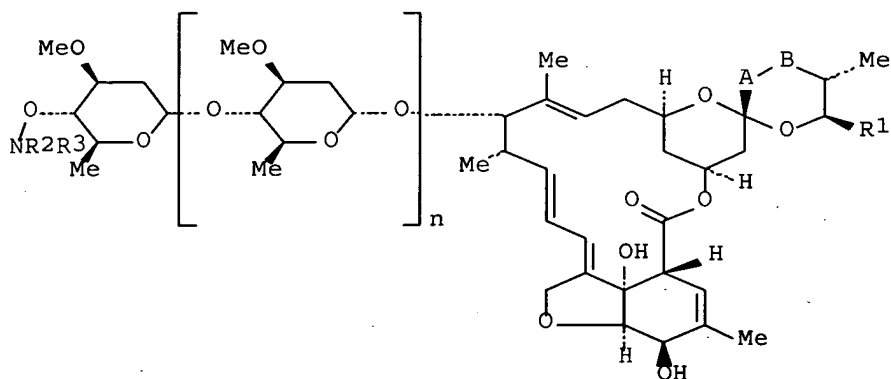
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004069852	A1	20040819	WO 2004-EP972	20040203 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
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	JP 2006516590	T	20060706	JP 2006-501717	20040203
	US 2006154879	A1	20060713	US 2005-544274	20050803
PRAI	GB 2003-2548	A	20030204		
	WO 2004-EP972	W	20040203		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004069852	ICM	C07H017-08
	ICS	A61K031-70; A61P033-00
	IPCI	C07H0017-08 [ICM,7]; C07H0017-00 [ICM,7,C*]; A61K0031-70 [ICS,7]; A61P0033-00 [ICS,7]
	IPCR	A61K0031-70 [I,C*]; A61K0031-70 [I,A]; A61P0033-00 [I,C*]; A61P0033-00 [I,A]; C07H0017-00 [I,C*]; C07H0017-08 [I,A]
	ECLA	C07H017/08
EP 1613639	IPCI	C07H0017-08 [ICM,7]; C07H0017-00 [ICM,7,C*]; A61K0031-70 [ICS,7]; A61P0033-00 [ICS,7]
	IPCR	A61K0031-70 [I,C*]; A61K0031-70 [I,A]; A61P0033-00 [I,C*]; A61P0033-00 [I,A]; C07H0017-00 [I,C*]; C07H0017-08 [I,A]
	ECLA	C07H017/08
JP 2006516590	IPCI	C07H0019-04 [I,A]; A61K0031-7056 [I,A]; A61P0033-14 [I,A]; A61P0033-00 [I,C*]; A61K0031-7048 [I,A]; A61K0031-706 [I,A]; A61K0031-7042 [I,C*]; C07H0019-01 [I,A]; C07H0019-00 [I,C*]; A01N0063-02 [I,A]
	FTERM	4C057/BB03; 4C057/DD03; 4C057/LL51; 4C086/AA01; 4C086/AA02; 4C086/AA03; 4C086/EA14; 4C086/MA02; 4C086/MA05; 4C086/NA14; 4C086/ZB39; 4H011/AC01; 4H011/BA01; 4H011/BB21; 4H011/BC01; 4H011/BC03; 4H011/BC05; 4H011/BC07; 4H011/BC09; 4H011/BC18;

4H011/BC19; 4H011/BC20; 4H011/DA02; 4H011/DA13;
 4H011/DA15; 4H011/DA16; 4H011/DH03; 4H011/DH10
 US 2006154879 IPCI A01N0043-04 [I,A]; A01N0043-02 [I,C*]; C07H0017-08
 [I,A]; C07H0017-00 [I,C*]
 IPCR A01N0043-02 [I,C]; A01N0043-04 [I,A]; A61K0031-70
 [I,C*]; A61K0031-70 [I,A]; A61P0033-00 [I,C*];
 A61P0033-00 [I,A]; C07H0017-00 [I,C]; C07H0017-08 [I,A]
 NCL 514/028.000; 536/007.400
 ECLA C07H017/08
 OS MARPAT 141:186451
 GI



I

AB The title compds. I wherein AB is CH:CH or CH₂CH₂; n is 0 or 1; R₁, is C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ and R₄ are C(:Y)Q, or C(:Y)OQ; R₂NR₃ are a three- to seven-membered ring; R₃R₄ are C(R₄)R₅, where R₄ and R₅ are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C₁-C₁₂ alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides.

ST avermectin deriv prepn insecticide acaricide

IT Acaricides

Insecticides

(avermectin derivs.)

IT 736995-72-5P 736995-74-7P 736995-82-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in preparation of avermectins derivative insecticide and acaricide)

IT	736995-71-4P	736995-73-6P	736995-75-8P	736995-76-9P	736995-77-0P
	736995-78-1P	736995-79-2P	736995-80-5P	736995-81-6P	736995-83-8P
	736995-84-9P	736995-85-0P	736995-86-1P	736995-87-2P	736995-88-3P
	736995-89-4P	736995-90-7P	736995-91-8P	736995-92-9P	736995-93-0P
	736995-94-1P	736995-95-2P	736995-96-3P	736995-97-4P	736995-98-5P
	736995-99-6P	736996-00-2P	736996-01-3P	736996-02-4P	736996-03-5P
	736996-04-6P	736996-05-7P	736996-06-8P	736996-07-9P	736996-08-0P
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736996-66-0P	736996-67-1P	736996-68-2P	736996-69-3P	736996-70-6P
736996-71-7P	736996-72-8P	737806-77-8P	737806-78-9P	737806-79-0P
737806-80-3P				

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as insecticide and acaricide)

IT 145553-07-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in preparation of avermectins derivative insecticide and acaricide)

=> SEL RN

E1 THROUGH E105 ASSIGNED

=> D SEL

E1	1	145553-07-7/BI
E2	1	736995-71-4/BI
E3	1	736995-72-5/BI
E4	1	736995-73-6/BI
E5	1	736995-74-7/BI
E6	1	736995-75-8/BI
E7	1	736995-76-9/BI
E8	1	736995-77-0/BI
E9	1	736995-78-1/BI
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E33	1	736996-02-4/BI
E34	1	736996-03-5/BI
E35	1	736996-04-6/BI
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E38	1	736996-07-9/BI
E39	1	736996-08-0/BI
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E42	1	736996-11-5/BI
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E44	1	736996-13-7/BI
E45	1	736996-14-8/BI
E46	1	736996-15-9/BI
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E100	1	736996-71-7/BI
E101	1	736996-72-8/BI
E102	1	737806-77-8/BI
E103	1	737806-78-9/BI
E104	1	737806-79-0/BI
E105	1	737806-80-3/BI

=> FILE HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

9.73

303.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.78

-0.78

FILE 'HCAPLUS' ENTERED AT 14:24:51 ON 25 OCT 2007

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FILE COVERS 1907 - 25 Oct 2007 VOL 147 ISS 18

FILE LAST UPDATED: 24 Oct 2007 (20071024/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> D L7 1-3 IBIB ABS HIT

L7 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:681636 HCAPLUS Full-text

DOCUMENT NUMBER: 141:186452

TITLE: Preparation of avermectins and avermectin monosaccharides substituted in the 4'- and 4"-position as insecticides and acaricides

INVENTOR(S): Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Pitterna, Thomas; Maienfisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 100 pp.

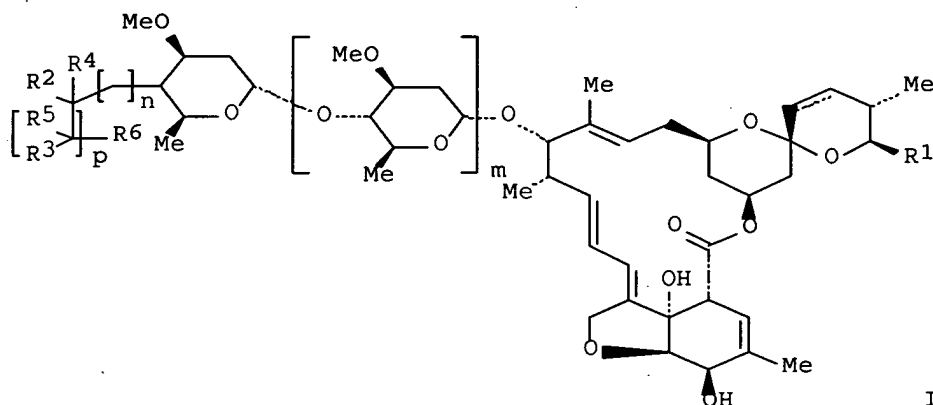
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069853	A1	20040819	WO 2004-EP977	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1592701	A1	20051109	EP 2004-707507	20040203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006517554	T	20060727	JP 2006-501719	20040203
US 2006094600	A1	20060504	US 2005-544281	20050803
PRIORITY APPLN. INFO.:			GB 2003-2547	A 20030204
			WO 2004-EP977	W 20040203

OTHER SOURCE(S): MARPAT 141:186452
 GI



AB The title compds. I, wherein the bond of atoms C22 and C23 is a single or double bond; m is 0 or 1; n is 0, 1 or 2; p is 0 or 1; R1 is C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R4 is H, C1-C12 alkyl, C1-C12 haloalkyl or C1-C12 hydroxyalkyl; or together with R4 form with the carbon to which they are bound a three- to seven-membered ring; R3 is H, C1-C12 alkyl, halogen, C1-C2 haloalkyl, CN, NO2 or C3-C8 cycloalkyl; R5, R6 is H, C1-C12 alkyl, CN, NO2, OH, SH, halogen, C1-C2 haloalkyl or C3-C8 cycloalkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as acaricides and insecticides.

IT	145498-56-2P	145498-57-3P	145553-07-7P	145553-08-8P	
	737796-71-3P	737796-72-4P	737796-73-5P	737796-74-6P	737796-78-0P
	737796-81-5P	737796-84-8P	737796-87-1P	737796-92-8P	737796-93-9P
	737796-95-1P	737796-97-3P	737796-99-5P	737797-00-1P	737797-02-3P
	737797-04-5P	737797-06-7P	737797-08-9P	737797-09-0P	737797-15-8P
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 737798-52-6P 737798-53-7P 737798-61-7P 737798-62-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(intermediate in preparation of avermectin derivative insecticide and
 acaricide)

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:681635 HCAPLUS Full-text

DOCUMENT NUMBER: 141:186451

TITLE: Preparation of avermectins substituted in the 4'- and
 4"-positions as insecticides and acaricides

INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas;
 Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta,
 Laura; Hueter, Ottmar Franz

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

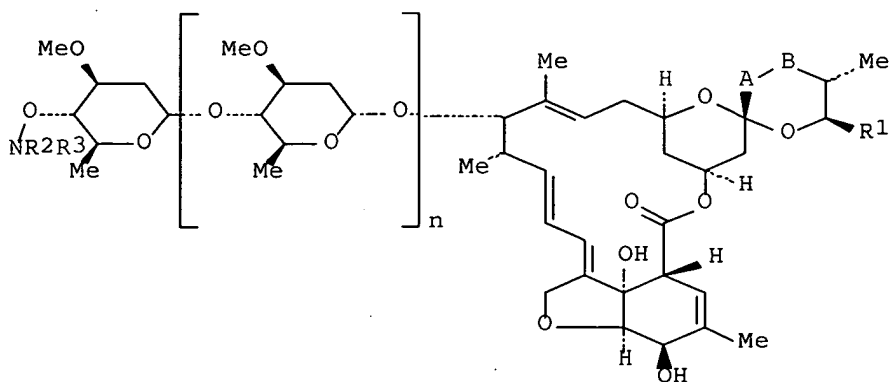
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069852	A1	20040819	WO 2004-EP972	20040203
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1613639	A1	20060111	EP 2004-707515	20040203
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006516590	T	20060706	JP 2006-501717	20040203
US 2006154879	A1	20060713	US 2005-544274	20050803
PRIORITY APPLN. INFO.:			GB 2003-2548	A 20030204
			WO 2004-EP972	W 20040203

OTHER SOURCE(S): MARPAT 141:186451

GI



I

AB The title compds. I wherein AB is CH:CH or CH₂CH₂; n is 0 or 1; R₁, is C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ and R₄ are C(:Y)Q, or C(:Y)OQ; R₂NR₃ are a three- to seven-membered ring; R₃R₄ are C(R₄)R₅, where R₄ and R₅ are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C₁-C₁₂ alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides.

IT 736995-72-5P 736995-74-7P 736995-82-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in preparation of avermectins derivative insecticide and acaricide)

IT 736995-71-4P 736995-73-6P 736995-75-8P

736995-76-9P 736995-77-0P 736995-78-1P

736995-79-2P 736995-80-5P 736995-81-6P

736995-83-8P 736995-84-9P 736995-85-0P

736995-86-1P 736995-87-2P 736995-88-3P

736995-89-4P 736995-90-7P 736995-91-8P

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737806-79-0P 737806-80-3P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as insecticide and acaricide)

IT 145553-07-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant in preparation of avermectins derivative insecticide and acaricide)

L7 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:81321 HCAPLUS Full-text

DOCUMENT NUMBER: 118:81321

TITLE: 4"-and 4'-alkylthioavermectin derivatives

INVENTOR(S): Meinke, Peter T.; Mrozik, Helmut

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

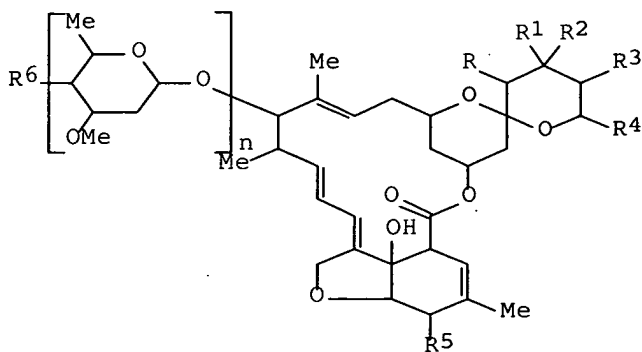
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 506331	A1	19920930	EP 1992-302514	19920324
R: CH, DE, FR, GB, IT, LI, NL				
US 5208222	A	19930504	US 1991-676626	19910328
CA 2064117	A1	19920929	CA 1992-2064117	19920326
CA 2064117	C	20040713		
AU 9213871	A	19921001	AU 1992-13871	19920327
AU 643603	B2	19931118		
ZA 9202240	A	19921125	ZA 1992-2240	19920327
JP 05163277	A	19930629	JP 1992-121013	19920330
JP 07103126	B	19951108		

PRIORITY APPLN. INFO.:

US 1991-676626 A 19910328

OTHER SOURCE(S): MARPAT 118:81321

GI



AB Avermectins I [RR1 = bond; R = R1 = H; R2 = H, OH; R1R2 = O; R3 = H, alkyl; R4 = (un)substituted cycloaliph., cycloaliph., aromatic, heterocyclic; R5 = H, alkoxy, acyloxy, oxo, oximino; R6 = S(O)mR7, SCOR7, iodo; R7 = H, (un)substituted alkyl; m = 0, 1, 2; n = 0, 1] were prepared Thus, avermectin Bla/B1b was converted to its 4'''-O-triflyl-5-O-tert-butyl dimethylsilyl derivative which was treated with MeSH and deblocked to give 4'''-deoxy-4'''-epimethylthioavermectin Bla/B1b.

IT 145553-07-7P 145553-08-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with methanethiol)

=> D 2

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:681635 HCAPLUS Full-text
DN 141:186451
TI Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides
IN Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
PA Syngenta Participations A.-G., Switz.
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004069852	A1	20040819	WO 2004-EP972	20040203
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1613639	A1	20060111	EP 2004-707515	20040203
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2006516590	T	20060706	JP 2006-501717	20040203
	US 2006154879	A1	20060713	US 2005-544274	20050803
PRAI	GB 2003-2548	A	20030204		
	WO 2004-EP972	W	20040203		
OS	MARPAT 141:186451				

=> D 2 IND

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
IC ICM C07H017-08
ICS A61K031-70; A61P033-00
CC 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 26
ST avermectin deriv prepn insecticide acaricide
IT Acaricides
Insecticides
(avermectin derivs.)

IT 736995-72-5P 736995-74-7P 736995-82-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate in preparation of avermectins derivative insecticide and
acaricide)

IT 736995-71-4P 736995-73-6P 736995-75-8P
736995-76-9P 736995-77-0P 736995-78-1P
736995-79-2P 736995-80-5P 736995-81-6P
736995-83-8P 736995-84-9P 736995-85-0P
736995-86-1P 736995-87-2P 736995-88-3P
736995-89-4P 736995-90-7P 736995-91-8P
736995-92-9P 736995-93-0P 736995-94-1P
736995-95-2P 736995-96-3P 736995-97-4P
736995-98-5P 736995-99-6P 736996-00-2P
736996-01-3P 736996-02-4P 736996-03-5P
736996-04-6P 736996-05-7P 736996-06-8P
736996-07-9P 736996-08-0P 736996-09-1P
736996-10-4P 736996-11-5P 736996-12-6P
736996-13-7P 736996-14-8P 736996-15-9P
736996-16-0P 736996-17-1P 736996-18-2P
736996-19-3P 736996-20-6P 736996-21-7P
736996-22-8P 736996-23-9P 736996-24-0P
736996-25-1P 736996-26-2P 736996-27-3P
736996-28-4P 736996-29-5P 736996-30-8P
736996-31-9P 736996-32-0P 736996-33-1P
736996-34-2P 736996-35-3P 736996-37-5P
736996-39-7P 736996-40-0P 736996-41-1P
736996-42-2P 736996-43-3P 736996-44-4P
736996-45-5P 736996-46-6P 736996-47-7P
736996-48-8P 736996-49-9P 736996-50-2P
736996-51-3P 736996-52-4P 736996-53-5P
736996-54-6P 736996-55-7P 736996-56-8P
736996-57-9P 736996-58-0P 736996-59-1P
736996-60-4P 736996-61-5P 736996-62-6P
736996-63-7P 736996-64-8P 736996-65-9P
736996-66-0P 736996-67-1P 736996-68-2P
736996-69-3P 736996-70-6P 736996-71-7P
736996-72-8P 737806-77-8P 737806-78-9P
737806-79-0P 737806-80-3P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(preparation as insecticide and acaricide)

IT 145553-07-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in preparation of avermectins derivative insecticide and
acaricide)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	37.03	340.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.34	-3.12

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STRUCTURE FILE UPDATES: 23 OCT 2007 HIGHEST RN 951288-30-5
DICTIONARY FILE UPDATES: 23 OCT 2007 HIGHEST RN 951288-30-5

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 736995-71-4/RN

L8 1 736995-71-4/RN

=>. SET NOTICE 1 DISPLAY

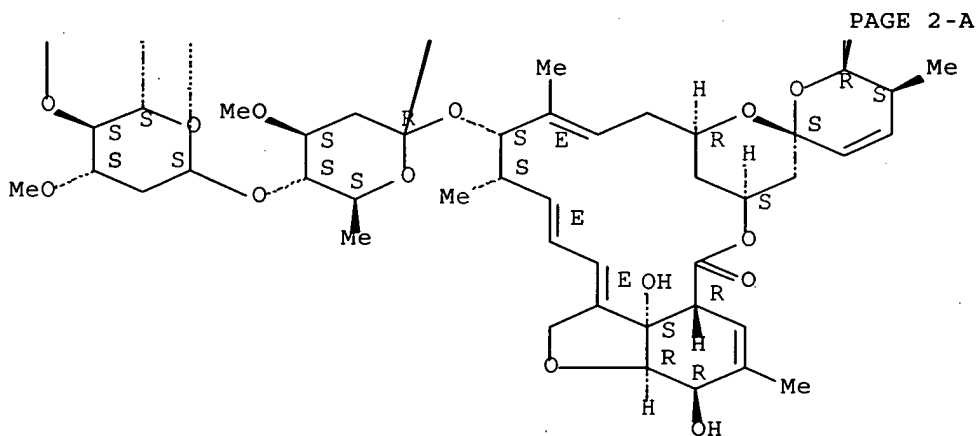
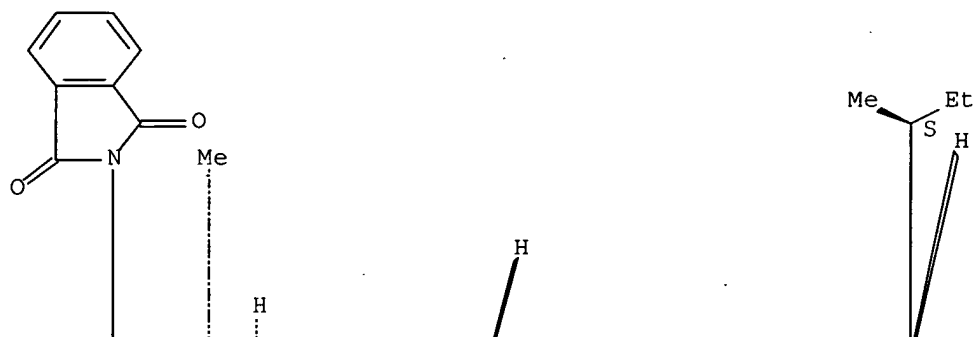
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L8 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 736995-71-4 REGISTRY
CN Avermectin Ala, 5-O-demethyl-4''-O-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-
yl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C56 H75 N O16
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=>

=> FIL STNG

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.45	347.42
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-3.12

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Oct 19, 2007 (20071019/UP).

=> LOG H

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.48	347.90
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-3.12

SESSION WILL BE HELD FOR 120 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 14:41:28 ON 25 OCT 2007